

FORT BELKNAP INDIAN COMMUNITY
APPENDIX A
Water Quality Criteria for Human Health
REVISION – FEBRUARY 13, 2020

A-1: Numeric Criteria for Human Health

| Pollutant (P = Priority Pollutant) | CAS Number | Human Health for the consumption of Water + Organism (µg/L) | Human Health for the consumption of Organism Only (µg/L) | Publication Year | Organoleptic Effect Criteria (µg/L) | Notes |
|--|------------|---|--|------------------|-------------------------------------|---|
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0234"] (P) | 83329 | 70 | 90 | 2015 | 20 | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0211"] (P) | 107028 | 3 | 400 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0162"] (P) | 107131 | 0.061 | 7.0 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0163"] (P) | 309002 | 0.00000077 | 0.00000077 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |

Commented [MH1]: I've highlighted my changes in yellow from this point forward. I'll remove the highlighted areas after they have been approved by you.

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| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0164"] (P) | 319846 | 0.00036 | 0.00039 | 2015 | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0235"] (P) | 959988 | 20 | 30 | 2015 | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0236"] (P) | 120127 | 300 | 400 | 2015 | |
| RLINK www.epa.gov/sites/production/files/2018-08/documents/hh-criteria-calculation-matrix-2002.pdf" | 7440360 | 5.6 | 640 | 1980 | This criterion was revised to reflect EPA's q1* or RfD as contained in the [HYPERLINK "https://www.epa.gov/iris"] as of May 17, 2002. The fish tissue bioconcentration factor (BCF) is from the 1980 Ambient Water Quality Criteria document. EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.epa.gov/sites/production/files/2018-08/documents/hh-criteria-calculation-matrix-2002.pdf" | 7440382 | 0.018 | 0.14 | 1992 | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving |

Commented [WQC2]: MCL is 6.0 µg/L

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| | | | | | <p>the decimal point (e.g., for a risk level of 10-5, move the decimal point in the recommended criterion one place to the right).</p> <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> <p>This recommended water quality criterion for arsenic refers to the inorganic form only.</p> | Commented [WQC3]: MCL is 10 µg/L |
| HYPERLINK "https://www.epa.gov/sites/production/files/2018-08/documents/hh-criteria-calculation-matrix-2002.pdf" | 1332214 | 7 million fibers/L | — | 1991 | <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> | Commented [WQC4]: MCL is 7 MFL |
| HYPERLINK "https://www.epa.gov/wqc/quality-criteria-old-book" | 7440393 | 1,000 | — | 1986 | <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> <p>This human health criterion is the same as originally published in the [HYPERLINK "https://www.epa.gov/wqc/quality-criteria-water-red-book"] which predates the 1980 methodology and did not utilize the fish ingestion BCF approach. This same criterion value is published in the [HYPERLINK "https://www.epa.gov/wqc/quality-criteria"].</p> | Commented [WQC5]: MCL is 2,000 µg/L |

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| | | | | | | water-gold-book"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0165"] (P) | 71432 | 0.58-2.1 (1.34) | 16-58 (37) | 2015 | | <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> <p>This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5}, move the decimal point in the recommended criterion one place to the right).</p> |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0166"] (P) | 92875 | 0.00014 | 0.011 | 2015 | | <p>This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5}, move the decimal point in the recommended criterion one place to the right).</p> |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0176"] (P) | 56553 | 0.0012 | 0.0013 | 2015 | | <p>This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5}, move the decimal point in the recommended criterion one place to the right).</p> |
| RLINK | 50328 | 0.00012 | 0.00013 | 2015 | | <p>This criterion is based on</p> |

Commented [WQC7]: MCL is 5 µg/L

Commented [WQC6]: I like the idea of a Range for both, but if I had to determine an actual number, maybe the middle number for both, would that work?

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| www.regulations.gov/document?D=EPA-HQ-OW-35-0177"] (P) | | | | | | carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0178"] (P) | 205992 | 0.0012 | 0.0013 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0179"] (P) | 207089 | 0.012 | 0.013 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK "https://www.epa.gov/wqc/ambient-water-criteria-beryllium"] (P) | 7440417 | 4 ^b | — | — | | |
| RLINK | 319857 | 0.0080 | 0.014 | 2015 | | This criterion is based on |

Commented [WQC8]: MCL is 0.2 µg/L

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| www.regulations.gov/document?D=EPA-HQ-OW-35-0167"] (P) | | | | | | carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0237"] (P) | 33213659 | 20 | 40 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0212"] (P) | 108601 | 200 | 4,000 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0180"] (P) | 111444 | 0.030 | 2.2 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0168"] (P) | 117817 | 0.32 | 0.37 | 2015 | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of |

Commented [WQC9]: Listed as Di(2-ethylhexyl)phthalate.
MCL is 6 µg/L

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| | | | | | | 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0181"] | 542881 | 0.00015 | 0.017 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0192"] (P) | 75252 | 7.0 | 120 | 2015 | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0213"] (P) | 85687 | 0.10 | 0.10 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |

Commented [WQC10]: MCL is 80 µg/L

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| RLINK "https://www.epa.gov/wqc/ambient-water-criteria-cadmium"] (P) | 7440439 | 5 ^b | — | — | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0182"] (P) | 56235 | 0.4 | 5 | 2015 | | <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0183"] (P) | 57749 | 0.00031 | 0.00032 | 2015 | | <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0214"] (P) | 108907 | 100 | 800 | 2015 | NO CRITERIA | <p>The criterion for organoleptic (taste and odor) effects may be more stringent. See [HYPERLINK "https://www.epa.gov/wqc/national-</p> |

Commented [WQC11]: MCL is 5.0 µg/L

Commented [WQC12]: MCL is 2.0 µg/L

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| | | | | | recommended-water-quality-criteria-organoleptic-effects"]. EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. | Commented [WQC13]: MCL is 100 µg/L |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0193"] (P) | 124481 | 0.80 | 21 | 2015 | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). | Commented [WQC14]: Listed as Dibromochloromethane. MCL is 80 µg/L and MCLG is 60 µg/L |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0215"] (P) | 67663 | 60 | 2,000 | 2015 | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. | Commented [WQC15]: MCL is 80 and MCLG is 70 |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0238"] | 94757 | 70 ^a | 12,000 | 2015 | | Commented [WQC16]: Listed as 2,4-D (2,4-dichlorophenoxyacetic acid). MCL and MCLG is 70 |
| RLINK | 93721 | 50 ^a | 400 | 2015 | | Commented [WQC17]: Listed as 2,4,5-TP (Silvex). MCL and MCLG is 50 |

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| www.regulations.gov/document?D=EPA-HQ-OW-35-0216"] | | | | | | |
| RLINK "https://www.epa.gov/wqc/ambient-water-criteria-chromium"] (P) | 16065831 | 100 ^b | — | — | | |
| RLINK "https://www.epa.gov/wqc/ambient-water-criteria-chromium"] (P) | 18540299 | 100 ^b | — | — | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0184"] (P) | 218019 | 0.12 | 0.13 | 2015 | | <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> |
| RLINK www.epa.gov/sites/production/files/2018-08/documents/hh-criteria-calculation-matrix-2002.pdf" | 7440508 | 1,300 | — | 1992 | 1000 | <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK</p> |

Commented [WQC18]: Has no MCL

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| | | | | | | "https://www.epa.gov/dwstandardsregulations"]. | Commented [WQC19]: Copper action level 1.3 mg/L, Treatment Technique (TT) |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0239"] (P) | 57125 | 4 | 400 | 2015 | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. | Commented [WQC20]: CAS # is 143-33-9 with an MCL and MCLG of 200 |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0185"] (P) | 53703 | 0.00012 | 0.00013 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0195"] (P) | 75274 | 0.95 | 27 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. | Commented [WQC21]: Listed as Bromodichloromethane (THM). MCL is 80 |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW- | 60571 | 0.0000012 | 0.0000012 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate | |

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| 35-0171"] (P) | | | | | | risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0240"] (P) | 84662 | 600 | 600 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0241"] (P) | 131113 | 2,000 | 2,000 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0242"] (P) | 84742 | 20 | 30 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0217"] | 25550587 | 10 | 1,000 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0243"] (P) | 1031078 | 20 | 40 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0218"] (P) | 72208 | 0.03 | 0.03 | 2015 | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |

Commented [WQC22]: MCL is 2.0

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| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0219"] (P) | 7421934 | 1 | 1 | 2015 | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0244"] (P) | 100414 | 68 | 130 | 2015 | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0220"] (P) | 206440 | 20 | 20 | 2015 | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0221"] (P) | 86737 | 50 | 70 | 2015 | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0222"] (P) | 58899 | 0.2 ^a | 4.4 | 2015 | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0196"] (P) | 76448 | 0.0000059 | 0.0000059 | 2015 | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |

Commented [WQC23]: MCL and MCLG is 700

Commented [WQC24]: Listed as Lindane. MCL and MCLG 0.2

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| | | | | | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. | Commented [WQC25]: MCL is 0.4 |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0197"] (P) | 1024573 | 0.000032 | 0.000032 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. | Commented [WQC26]: MCL is 0.2 |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0198"] (P) | 118741 | 0.000079 | 0.000079 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. | Commented [WQC27]: MCL is 1.0 |
| RLINK | 87683 | 0.01 | 0.01 | 2015 | | This criterion is based on | |

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| www.regulations.gov/document?D=EPA-HQ-OW-35-0199"] (P) | | | | | | carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0172"] | 608731 | 0.0066 | 0.010 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0245"] (P) | 77474 | 4 | 4 | 2015 | 1 | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0186"] (P) | 67721 | 0.1 | 0.1 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0187"] (P) | 193395 | 0.0012 | 0.0013 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving |

Commented [WQC28]: MCL is 50

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| | | | | | | the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). |
| | 7439896 | - | - | - | 300 | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0188"] (P) | 78591 | 34 | 1,800 | 2015 | | This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). |
| RLINK "https://www.epa.gov/wqc/drinking-water-document-manganese"] | 7439965 | 50 | 100 | 1993 | Criteria? | The Human Health for the consumption of Water + Organism criterion for manganese is not based on toxic effects, but rather is intended to minimize objectionable qualities such as laundry stains and objectionable tastes in beverages. |
| RLINK "https://www.epa.gov/wqc/human-health-methylmercury"] (P) | 22967926 | — | 0.3 mg/kg | 2001 | | This fish tissue residue criterion for methylmercury is based on a total fish consumption rate of 0.0175 kg/day. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0223"] | 72435 | 0.02 | 0.02 | 2015 | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations" |

Commented [WQC29]: Is there criteria for this?

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| | | | | | |]. | Commented [WQC30]: MCL is 40 |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0224"] (P) | 74839 | 100 | 10,000 | 2015 | | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0200"] (P) | 75092 | 5 ^a | 1,000 | 2015 | | <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> | Commented [WQC31]: Listed as Dichloromethane. MCL is 5.0 |
| chlorobenzene | 108907 | - | - | - | 20 | | |
| RLINK www.epa.gov/sites/production/files/2018-08/documents/hh-criteria-calculation-matrix-2002.pdf" | 7440020 | 610 | 4,600 | 1998 | | <p>This criterion was revised to reflect EPA's q1* or RfD as contained in the[HYPERLINK "https://www.epa.gov/iris"] as of May 17, 2002. The fish tissue bioconcentration factor (BCF) is from the 1980 Ambient Water Quality Criteria document.</p> | |
| RLINK "https://www.epa.gov/wqc/quality-criteria-calculation-matrix-2002.pdf"] | 14797558 | 10,000 | — | 1986 | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may | |

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| | | | | | | be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW- 35-0246"] (P) | 98953 | 10 | 600 | 2015 | 30 | |
| RLINK "https://www.epa.gov/wqc/ambient-water- criteria-nitrosamines"] | — | 0.0008 | 1.24 | 1980 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.epa.gov/sites/production/files/2018- ments/hh-criteria-calculation-matrix-2002.pdf"] | 924163 | 0.0063 | 0.22 | 2002 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.epa.gov/sites/production/files/2018- ments/hh-criteria-calculation-matrix-2002.pdf"] | 55185 | 0.0008 | 1.24 | 2002 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |

Commented [WQC32]: MCL and MCLG is 10,000

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| RLINK www.epa.gov/sites/production/files/2018- ments/hh-criteria-calculation-matrix-2002.pdf"] | 930552 | 0.016 | 34 | 2002 | This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.epa.gov/sites/production/files/2018- ments/hh-criteria-calculation-matrix-2002.pdf" | 62759 | 0.00069 | 3.0 | 2002 | This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). |
| sodi-n-Propylamine (P) | 621647 | 0.0050 | 0.51 | 2002 | This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). |
| sodiphenylamine (P) | 86306 | 3.3 | 6.0 | 2002 | This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). |

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| RLINK "https://www.epa.gov/wqc/recreational-quality-criteria-and-methods"] | — | — | — | 2012 | | See EPA's [HYPERLINK "https://www.epa.gov/wqc/recreational-quality-criteria-and-methods"] | Commented [WQC33]: Remove this? Since E.coli criteria is included in the TWQS document for Recreational Uses. We would like to use Recommendation 1, which is 126 GM and 410 STV. I can change the E.coli info to this and include the cyanotoxin criteria as well OR do you think a table of both E.coli and Cyanotoxin be included following this table? (I've included a sample table if so) |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0225"] | 608935 | 0.1 | 0.1 | 2015 | | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0201"] (P) | 87865 | 0.03 | 0.04 | 2015 | 30 | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"] | Commented [WQC34]: MCL is 1.0 |
| | — | 5 – 9 | — | 1986 | | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0247"] (P) | 108952 | 4,000 | 300,000 | 2015 | 300 | | |
| lorinated Biphenyls (PCBs) (P) | 1336363 | 0.000064 | 0.000064 | 2002 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk | Commented [WQC35]: There was no CAS # initially, so added it from the 2018 Edition of the Drinking Water Standards and Health Advisories Tables |

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| | | | | | | <p>10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> <p>This criterion applies to total PCBs (e.g., the sum of all congener or all isomer or homolog or Aroclor analyses). EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> | Commented [WQC36]: MCL is 5.0 |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0248"] (P) | 129000 | 20 | 30 | 2015 | | | |
| RLINK www.epa.gov/sites/production/files/2018-09/documents/hh-criteria-calculation-matrix-2002.pdf" | 7782492 | 50 ^a | 4200 | 2002 | | <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> | Commented [WQC37]: MCL and MCLG is 50 |
| RLINK "https://www.epa.gov/wqc/quality-criteria-old-book"] | — | 250,000 | — | 1986 | | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0189"] (P) | 127184 | 5 ^a | 29 | 2015 | | <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> | Commented [WQC38]: MCL is 5.0 |

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| | | | | | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.federalregister.gov/documents/2003/12/31/03-national-recommended-water-quality-criteria-for-tection-of-human-health"] (P) | 7440280 | 0.24 | 0.47 | 2003 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0226"] (P) | 108883 | 57 | 520 | 2015 | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0202"] (P) | 8001352 | 0.00070 | 0.00071 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW- | 79016 | 0.6 | 7 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate |

Commented [WQC39]: MCL is 1,000

Commented [WQC40]: MCL is 3.0

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| 35-0173"] (P) | | | | | | <p>risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> | Commented [WQC41]: MCL is 5.0 |
| <p>RLINK</p> <p>www.regulations.gov/document?D=EPA-HQ-OW-35-0174"] (P)</p> | 75014 | 0.022 | 1.6 | 2015 | | <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> | Commented [WQC42]: MCL is 2.0 |
|) | 7440666 | 7,400 | 26,000 | 2002 | 5000 | | |
| <p>RLINK "https://www.epa.gov/wqc/update-human-inhal-documents"] (P)</p> | 71556 | 200 ^a | 200,000 | 2015 | | <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> | Commented [WQC43]: MCL is 200 |

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| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0175"] (P) | 79345 | 0.2 | 3 | 2015 | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0156"] (P) | 79005 | 0.55 | 8.9 | 2015 | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0204"] (P) | 75354 | 7 ^a | 20,000 | 2015 | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0227"] | 95943 | 0.03 | 0.03 | 2015 | |
| RLINK | 120821 | 0.071 | 0.076 | 2015 | EPA has issued a Maximum Contaminant |

Commented [WQC44]: MCL is 5 and MCLG is 3

Commented [WQC45]: MCL and MCLG is 7.0

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| www.regulations.gov/document?D=EPA-HQ-OW-35-0205"] (P) | | | | | <p>Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> | Commented [WQC46]: MCL is 70 |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0206"] (P) | 95501 | 600 ^a | 3,000 | 2015 | <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsreg"].</p> | <p>Commented [WQC48]: MCL is 600</p> <p>Commented [WQC47]: Listed as Dichlorobenzene o-</p> |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0190"] (P) | 107062 | 5 ^a | 650 | 2015 | <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10⁻⁵, move the decimal point in the recommended criterion one place to the right).</p> <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> | Commented [WQC49]: MCL is 5.0 |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW- | 78875 | 0.90 | 31 | 2015 | <p>This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate</p> | |

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| 35-0157"] (P) | | | | | | <p>risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5}, move the decimal point in the recommended criterion one place to the right).</p> <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0158"] (P) | 122667 | 0.03 | 0.2 | 2015 | | <p>This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5}, move the decimal point in the recommended criterion one place to the right).</p> |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0249"] (P) | 156605 | 100 | 4,000 | 2015 | | <p>EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"].</p> |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0207"] (P) | 541731 | 7 | 10 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0191"] (P) | 542756 | 0.27 | 12 | 2015 | | <p>This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving</p> |

Commented [WQC50]: MCL is 5.0

Commented [WQC51]: MCL is 100

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| | | | | | | the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0208"] (P) | 106467 | 75 ^a | 900 | 2015 | | EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.epa.gov/sites/production/files/2018-08/documents/hh-criteria-calculation-matrix-2002.pdf" | 1746016 | 5.0E-9 | 5.1E-9 | 2002 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). EPA has issued a Maximum Contaminant Level (MCL) for this chemical which may be more stringent. See [HYPERLINK "https://www.epa.gov/dwstandardsregulations"]. |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0228"] | 95954 | 300 | 600 | 2015 | 1 | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0159"] (P) | 88062 | 1.5 | 2.8 | 2015 | 2 | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of |

Commented [WQC53]: MCL and MCLG is 75

Commented [WQC52]: Listed as Dichlorobenzene p-

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| | | | | | | 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| chlorophenol | - | - | - | - | 0.04 | |
| RLINK "https://www.epa.gov/wqc/update-human-inal-documents"] (P) | 120832 | 10 | 60 | 2015 | 0.3 | |
| chlorophenol | - | - | - | - | 0.5 | |
| chlorophenol | - | - | - | - | 0.2 | |
| chlorophenol | - | - | - | - | 0.3 | |
| RLINK "https://www.epa.gov/wqc/update-human-inal-documents"] (P) | 105679 | 100 | 3,000 | 2015 | 400 | |
| RLINK "https://www.epa.gov/wqc/update-human-inal-documents"] (P) | 51285 | 10 | 300 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0160"] (P) | 121142 | 0.049 | 1.7 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |

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| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0209"] (P) | 91587 | 800 | 1,000 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0210"] (P) | 95578 | 30 | 800 | 2015 | 0.1 | |
| rophenol | - | - | - | - | 0.1 | |
| rophenol | 106489 | - | - | - | 0.1 | |
| RLINK "https://www.epa.gov/wqc/update-human-inal-documents"] (P) | 534521 | 2 | 30 | 2015 | | |
| RLINK www.regulations.gov/document?D=EPA-HQ-OW-35-0161"] (P) | 91941 | 0.049 | 0.15 | 2015 | | This criterion is based on carcinogenicity of 10 ⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10 ⁻⁵ , move the decimal point in the recommended criterion one place to the right). |
| RLINK "https://www.epa.gov/wqc/update-human-inal-documents"] (P) | 59507 | 500 | 2,000 | 2015 | 3000 | |
| yl-4-Chlorophenol | — | - | - | - | 1800 | |
| yl-6-Chlorophenol | - | - | - | - | 20 | |

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| Tetrachlorophenol | — | - | - | - | 1 | |
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| HYPERLINK www.regulations.gov/document?D=EPA-HQ-OW-2015-0169] (P) | 72548 | 0.00012 | 0.00012 | 2015 | | This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). |
| HYPERLINK www.regulations.gov/document?D=EPA-HQ-OW-2015-0194] (P) | 72559 | 0.000018 | 0.000018 | 2015 | | This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). |
| HYPERLINK www.regulations.gov/document?D=EPA-HQ-OW-2015-0170] (P) | 50293 | 0.000030 | 0.000030 | 2015 | | This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). |

^a The Maximum Contaminant Level (MCL) is more stringent and replaced the initial Water + Organism criteria.

^b The Maximum Contaminant Level (MCL).

The **Human Health Criteria Calculation Matrix** can be found at: [[HYPERLINK "https://www.epa.gov/wqc/2002-national-recommended-human-health-criteria"](https://www.epa.gov/wqc/2002-national-recommended-human-health-criteria)]

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The **Human Health Water Quality Criteria and Methods for Toxics** can be found at:

[Fact Sheet: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health - Revised Methodology \(2000\)](#)